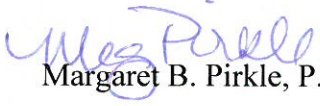


DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

FROM  Margaret B. Pirkle, P.E., Chief Engineer **DATE** June 12, 2018

TO Chief Engineer Divisions/Districts/Consultant Relations Committee

SUBJECT Providing 3D Models to Contractors as pre-let files

As the transportation industry further utilizes 3D data, the Department will begin requiring electronic 3D model files to be included with final plans package submissions to the Bidding Administration Office beginning in January 2019, corresponding with the March 2019 letting. Two files (LandXML format) will be included: the existing ground surface model and the final finished grade surface model. These files will be provided "for information only" and not considered to be contract documents.

3D model files will be required for projects that propose earthwork/grading operations, typically reflected in construction plan section 23 (Cross Sections) or 18 (Special Grading). Examples of such project types include but are not limited to: new location roadways, widenings, bridge replacements, grade separations, interchange reconstructions, roundabouts, turn lanes, passing lanes, etc. 3D model files will not be required for projects that do not propose earthwork/grading operations; examples of such project types include lighting, maintenance, landscaping, signal upgrades, signing/stripping upgrades, streetscapes, drainage improvements, ATMS/ITS, noise walls, etc. 3D model files are not required for MicroStation V7/CAiCE projects.

As further guidance is being developed, some high level considerations include:

- The primary engineering objective of the 3D model is to convey the design intent, especially in areas traditionally not well-defined in plans or cross sections.
- The 3D model should reflect the finished surface of the project focusing on:
 - The roadway, between shoulder break points, should be well-defined and accurate
 - Shoulder break point transitions (e.g. at guardrail and/or bridge locations)
 - Bridge Endrolls
 - Sidestreet transitions to the mainline
- For this phase of implementation, 3D models are not required to reflect:
 - Bridge Structures
 - Guardrail
 - Underground features (e.g. utilities, drainage, subgrade, etc.)

If you have any questions or concerns, please contact Sam Woods (Roadway Design, 404-631-1628, swoods@dot.ga.gov) or Rich Williams (Bidding Administration, 404-631-1612, rwilliams@dot.ga.gov).

MBP:CAC/RW:saw

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